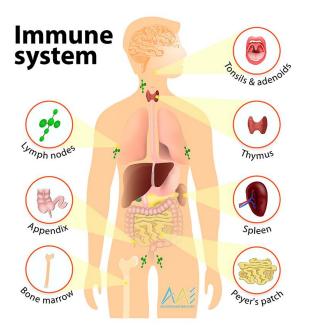
U5:L2 The Immune System Pt.2



The immune system is the body's defense against _____

.

Through a series of steps called the ______, the immune system attacks organisms and substances that invade body systems and cause disease.

What is the difference between innate (natural) and acquired (adaptive) immunity?

ACQUIRED / ADAPTIVE IMMUNITY

You develop an immune system once you're born in response to difference exposures

• 2nd & 3rd line of defence

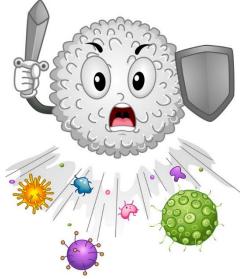
Activated when something gets past your ______

- Takes ______ days to be activated & lasts for ______
- Enhanced by _____
- 4 MAIN CHARACTERISTICS:

3rd Line of Defence:

- If the invader makes it past the first two lines of defense, the immune system identifies the invader (pathogen) and prepares a ______
- This response is known as the immune response and is ______

This means that the response targets specific pathogens.



The immune system is made up of a network of

that work together to protect the body.

One of the important cells involved are

_____, also called

(FEREN

leukocytes, which come in two basic types that combine to seek out and destroy disease-

causing organisms or substances.

Leukocytes are produced or stored in many locations in the		- Tonsils (in pharyngeal region)
body, including the For this reason,		Thymus (in thorax; most active during youth)
they're called the There		
are also clumps of lymphoid tissue throughout the body,	1 DARA	$\langle \rangle$
primarily as, that		- Spleen (curves
house the leukocytes.	ELECT	around left side of stomach)
The two basic types of leukocytes are:		- Peyer's patches (in intestine)
	-	

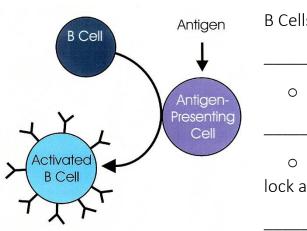
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Several different cells are considered phagocytes. The most common type is the ______ which primarily ______.

The two kinds of lymphocytes are	e lymphocytes and	lymphocytes.
Lymphocytes start out in the		and either stay
there and mature into	, or they leave for the	thymus gland, where
they mature into		

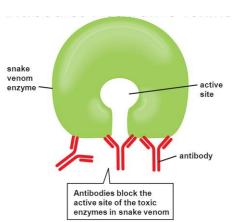
B lymphocytes and T lymphocytes have separate functions:

- T cells are like the _____, destroying the invaders that the ______



	intelligence system has identified			
	3 Cells –			
	·			
)	o This is called an			
/	 The antibody and antigen fit together like a lock and key. This means that 			

Once produced, these antibodies stay in a person's body, so that if his or her immune system encounters that antigen again, the antibodies are already there to do their job. So if someone gets sick with a certain disease, like chickenpox, that person usually won't get sick from it again.



Antibodies also

(poisonous or damaging substances) produced by different organisms.

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Although antibodies can recognize an antigen and lock onto it, _____

_____·

2444	 That's the job of the T cells, which are part of the system that		
		that have	
	been infected or somehow changed.		
	(Some T cells are actually called "	")	
Killer T-Cell	T cells also are involved in		
T Cells –			
 This is called a 			

o When the T cell binds to antigens on the infected cell, it causes it to